

CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
520-770-3500
http://www.azgs.az.gov
inquiries@azgs.az.gov

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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine

BLACK BIRD, Manganese

Date

April 23, 1943

District

Coyote

(Coystemire)

Engineer

Earl F. Hastings

Subject:

Reconstruction Finance Corporation /

Date Application Received Date of Field Examination Date of Report Phx C-159 March 12, 1943 April 20, 1943 April 24, 1943

- 1. Name and address of applicant (correspondent):
 Margaret Freilinger Special, 414 South 4th Avenue, Tucson, Arizona.
- Character of project and estimated cost thereof:
 Manganese. Stripping, equipping and operating manganese mine.
- 3. Location of property: Coyote Mining District, Pima County, Arizona.
- 4. Applicant's interest in or ownership of property:
 Applicants hold bond and lease at \$1.00 per ton royalty to apply on \$10,000 purchase price. \$30.00 per month minimum royalty.
- 5. Loan requested: \$5,000.00.
- 6. Loan recommended: \$5,000.00.
- 7. Comments:
 - (A) Added to the docket is a memorandum by G. A. Ballam, Field Engineer, Department of Mineral Resources, dated April 20, 1943.
 - (B) The property is not well developed, like most manganese properties, but appears to have ample ore exposed by surface work to warrant more than passing consideration.
 - (C) According to the Ballam memorandum both 30% low grade and plus 35% ore can be shipped in some quantity. The 30% ore would be marginal, returning only \$13.50 per ton f.o.b. Deming, New Mexico. With some portion of the mined ore qualifying as high grade, and considering the low production cost which should be obtained on this property, a small profit should be made.
 - (D) It is noted that shipments heretofore made have not equalled anticipated value based on samples taken by the applicant. It can, therefore, be assumed that the assay values as shown with the percentages in the forties do not represent average shipping ore. They are indicative, however, of the sorting characteristics of the mined material.

V 5 = 1 BLACK BIRD -2-April 23, 1943 (E) Management of the enterprise is possibly the most doubtful and detrimental feature of this application. On a marginal operation, such as this is bound to be, the entire success rests on careful and effective management. On the assumption that the applicants can operate with some degree of efficiency this loan is recommended. ARIZONA DEPARTMENT OF MINERAL RESOURCES Earl F. Hastings, Projects Engineer

RECONSTRUCTION FINANCE CORPORATION

MINING DIVISION

REPORT OF SUPERVISING ENGINEER

Docket No. ND-8173 . .Margaret Freilinger
414 South 4th Ave.
Tucson, Arizons
Date authorization for Examination
Received April 27, 1943
Date of Examination,
Inclusive May 7, 1943
Date of Report May 24, 1943

1. NAME AND ADDRESS OF APPLICANT

MARGARRY FREILINGER 414 South 4th Avenue Tucson, Arizona

Correspondent: Same

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Formally

2. CHARACTER OF PROJECT

Development of Manganese Deposit

3. LOCATION OF MINE

The mine is located in the Coyote Hills on the Papago Indian Reservation in Pima County, Arizona. Tucson, the nearest rail point and supply center, is 42 miles easterly by road from the Mine. The road is practically level and is paved for thirty-four (34) miles from Tucson. The balance of the road is hard surfaced, except the last mile to the mine which is sandy in places. The road is passable at all seasons.

4. APPLICANT

The applicant is a young woman who is employed at clerical work in the County Office. The original lease with option to purchase was granted to E. J. Freilinger, the father of the applicant. A new agreement was entered into naming Margaret Freilinger as lessee following a serious injurysustained by Mr. Freilinger while trucking ore from the property. Mr. Freilinger is now recovered and plans to manage the proposed development. He is an elderly man who for twenty (20) years was a building contractor in the vicinity of Tueson. During the past fifteen (15) years he has been interested in mining, chiefly in small scale development enterprises of a promotional nature. Latterly his daughter has been associated with him in this work. The applicant was not present at the time of the examination. The lease agreements referred to above are included with the data supporting the application.

LOAN REQUESTED \$5,000.00 DESCRIPTION OF PROJECT A. General Features There are no mine workings, mill or other appurtenances which are no confined within the applicant's ownership. (2) The project would comply with the State Compensation and Safety-First Statutes. (3) There are no apparent legal discrepancies in the project. (4) There are no impeded right-of-way facilities. (5) There is no likelihood of surface or subsurface trespass during the project. Existing Development (1) Mine is opened by surface cuts. The sketch accompanying this report is made from a compass and tape survey. Samples were cut with pick and moil and gathered on canvas. General Features of Deposit, etc.:-0. The property comprises two (2) claims and is held by Mr. A. M. Herreras on a rental basis from the Papago Indian Reservation. The applicant is operating under agreement with Mr. Herreras. The country rock in the immediate locality of the property is andesite and the manganese occurs in a sheeted zone in the andesite. Considerable float manganese and much manganese staining is present on the crests and gentle slopes of several low hills. The more important mineralized zone is several hundred feet wide and a thousand or more feet in length in the direction of the fracturing which is about N. 30 W., with an 80° dip N.E. The best ore showing lies on the northwest half of "Blackbird'No. 1 Claim" where a series of more intensely mineralized fractures has been opened by a out some 75' long and averaging about 6' in depth. A shaft (inaccessible) is sunk in the bottom of the cut to a depth of 28'. Shipments from the property totals seventytwo (72) tons, all mined from the above workings. Two shipments of eleven (11) tons each were sent to the Metals Reserve 2 -

Stockpile at Phoenix, but the material was refused at that point because it assayed 29 - 30% MnO which was well below the minimum acceptable grade (35%). This material was later shipped to a custom mill near Winkleman with unsatisfactory results. Another lot totalling fifty (50) tons was shipped to the low grade stockpile at Deming, New Mexico. This material, which was shipped by a sub-lessee, assayed 22% MnO.

The Manganese occurs as psilomelane and pyrclusite, the former predominating. While some high-grade samples can be

and pyrolusite, the former predominating. While some high-grade samples can be picked out the general run of mine material is low-grade and not susceptible to close sorting. The shipment which was made to Phoenix represented sorting of ore mined from the best showing. later shipment of fifty (50) tons assaying 22% MnO was the product after some sorting. Sample No. 8 represents a pile of about fifteen (15) tons of sorted ore on top of the dump. The balance of the scattered material amounting to about one hundred (100) tons all contains MnO and is estimated to run between 5 and 10% MnO. The ratio of sorting, therefore, is somewhat less than one (1) ton of 22% plus ore against two (2) tons of material mined. The shape of the cut and the location of the samples is indicated on the attached sketch. The average width and weighted average of MnO content of the samples, excluding No. 8 (dump) is:

> width 5 Mn0 66" 16.69

While the cut has been made along the most favorable trend of mineralization, the walls of the cut contain MnO in some cases equal in amount to that shown in the cut. There were no ladders in the shaft but the mineralization could be seen to continue to the bottom of the shaft.

Immediately northwest of the long cut several trenches and pits indicate that mineralization continues in this direction for at least 50° with about the same MnO content as in the cut.

As noted above the surface area of mineralization is quite extensive and many scattered cuts show fair amounts of MnO, though not approaching the values shown in the developed area.

The shipping record together with the size and quality of the dump and the assays

obtained during the examination indicates that a large volume of low-grade manganese bearing material is available here. A grade of ore similar to that of the fifty (50) ton lot which was shipped to Deming, or 22% MnO, would appear to be about the practical limit of a sorted product. If material of this grade were shipped to the Deming stockpile the value per long ton at the mine would work out about as follows:

While the mineralized area is quite extensive, the proven width of material capable of yielding a sorted product running 22% Mo3 is not large and it would not be possible therefore to mine by large open cut method. The cost for selective underground mining is estimated at \$4.00 per long ton or allowing for sorting, about \$5.00 per long ton of ore shipped.

From the above calculations and estimate it is apparent that the project would not be economical at present prices for MnC.

Milling of the ore on the property does not seem practical in view of the fact that the manganese, partly as pyrolusite, occurs intimately mixed with country rock.

7. COMMENTS OF SUPERVISING ENGINEER

There appears to be a large amount of low-grade manganese in the claims of the applicant. The work which has been done to date indicates, however, that even with very close sorting, the material mined from the most favorable location cannot be sorted to a high-grade shipping product. Also, the grade of material which can be practically obtained by sorting is too low to be handled economically at the low grade stockpile at Deming, New Mexico.

A development loan is not recommended.

168R9E ND-8173 Docket Mo Date auth for Exam Ric'd 4/27/43 5/7/43 Dote of Exam mid. Date of Report. Mane and Oddress of applicant Manne / Oddress Margaret Freelinger 4148, 4th an City & State Tucson Origona Marie of Conspondent Saine 2 Charater of Project Dordopment of Manganese deposit. 3 Cocation of num He min is brited mi the Conte hills the Papage Indian Resentant in Prima County Origina. Tueson, the nearest rail point and Dupply center is 42 miles easterly And god from the wilke. The root for partially land in pared fitte An 34 miles from Tream. The Alama in the last mile to the nume which is south in places. The rord is a will at proable at all season,

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B. Existing Development

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